

International application No.

PCT/JP2004/001819

		PCT/JP2	004/001819	
A. CLASSIFIC Int.Cl7	CATION OF SUBJECT MATTER H01Q7/04, 1/44, 5/02			
				
	emational Patent Classification (IPC) or to both national	classification and IPC		
B. FIELDS SE.		im at .		
Minimum docum	nentation searched (classification system followed by classification system followed by classification system followed by classification searched (classification system followed by classification searched (classification system followed by classification system followed by clas	ssitication symbols)		
INT.CI,				
	earched other than minimum documentation to the exten	at that such documents are included in the	; fields searched	
Jitsuyo	Shinan Koho 1922–1996 Tox	roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004 1996-2004	
Electronic data b	ase consulted during the international search (name of d	ata base and, where practicable, search te	rms used)	
			•	
0 505==	THE CONGINERATION TO BE ANY THE TANK			
	VIS CONSIDERED TO BE RELEVANT.		Γ	
Category*	Citation of document, with indication, where app	·	Relevant to claim No.	
Y	Microfilm of the specification to the request of Japanese Uti	n and drawings annexed	1,2,4	
	No. 149336/1987 (Laid-open No.	55720/1989)		
	(Central Research Institute o	f Electric Power		
	Industry),			
·	06 April, 1989 (06.04.89), Full text; all drawings	•		
	(Family: none)			
Y	JP 4-2002 B2 (Nippondenso Co.	., Ltd.),	1,2,4	
	16 January, 1992 (16.01.92),			
	Page 2, left column, line 20 line 1	to right column,		
	(Family: none)	•		
		•		
			<u> </u>	
Further documents are listed in the continuation of Box C. See patent family annex.				
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "I alter document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 				
•	cation or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be consi	idered to involve an inventive	
"L" document w	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance: the	claimed invention cannot be	
special reaso	on (as specified) eferring to an oral disclosure, use, exhibition or other means	considered to involve an inventive combined with one or more other such	step when the document is	
"P" document published prior to the international filing date but later than being obvious to a person skilled in the art		e art		
the priority	date claimed	•		
		Date of mailing of the international sea		
23 Apri	il, 2004 (23.04.04)	18 May, 2004 (18.0)	····	
Name and:11	graddress of the ISA/	Authorized officer		
Name and mailing address of the ISA/ Japanese Patent Office		Janes Janes		
Faccimile No		Telephone No.		



International application No.

PCT/JP2004/001819

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α .	JP 7-321689 A (AT & T Corp.), 08 December, 1995 (08.12.95), Par. Nos. [0023] to [0024]; Fig. 10 & EP 684704 A2 column 6, lines 19 to 47; Fig. 10 & US 5564082 A1 column 5, lines 15 to 39; Fig. 10	
Ā	US 2009087 A (RADIO CORPORATION OF AMERICA), 23 July, 1935 (23.07.35), Full text; all drawings & DE 604123 C & GB 399548 A	1-4
•		
		-
	·	
	•	
	•	
-		